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R/008/61/000/004/001/003  
D238/D304

Study of a class...

the authors study the path elements, deducing the equation of the path

$$r = \frac{1}{A_0} \left( 1 - q \sin^2 \frac{\gamma}{2} \right) + B_0 = r_0 \left( 1 - \varepsilon \sin^2 \frac{\gamma}{2} \right).$$

(4)

4

in which  $\gamma$  is the angle of the rate of climb,  $r_0$  the radius of the curvature at the beginning and the end of the loop, and  $\varepsilon = \frac{q}{A_0 r_0}$ . The family of curves derived from the basic curve, cor-

responding to some values given for  $A_0 = \frac{1}{r_0}$  and  $q = \varepsilon$ , may be easily traced with the  $B_0$  constant, as shown in Fig. 2. The

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equations of motion are given by

$$\frac{G}{2gr} \frac{dV^2}{d\gamma} = \mathcal{T} - \frac{\rho}{2} SC_x V^2 - G \sin \gamma, \quad (8)$$

$$\frac{\rho}{2} SC_z V^2 = G \left( \frac{V^2}{gr} + \cos \gamma \right).$$

in which  $\rho$  is the air density,  $S$  the lifting surface,  $C_x$  the drag coefficient, and  $C_z$  the lift coefficient. Considering the traction to be constant as long as the engine intake does not vary, the authors deduce for a medium angle of attack, the velocity equation (12) and for small values of the angle of attack the velocity equation (14).

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$$V^2 = e^{-\int \left( \frac{\partial k}{\partial r} + \frac{\partial x}{\partial r} \right) dr} \left[ C + 2g \int \left( \frac{F_0}{G} - \sin \gamma - \frac{C_x}{C_s} \cos \gamma \right) r e^{\int \left( \frac{\partial k}{\partial r} + \frac{\partial x}{\partial r} \right) dr} d\gamma \right]. \quad (12)$$

$$V^2 = e^{-\int \left[ \frac{4G(1+\delta)}{\pi \lambda \rho g S} \cdot \frac{1}{r} + \frac{g}{G} (\rho S C_{X_0} + 2k)r \right] d\gamma} \left\{ C + 2 \int \left[ g r \left( \frac{F_0}{G} - \sin \gamma \right) - \frac{4G(1+\delta)}{\rho S \pi \lambda} \cos \gamma \right] \cdot \int \left[ \frac{4G(1+\delta)}{\pi \lambda \rho g S} \cdot \frac{1}{r} + \frac{g}{G} (\rho S C_{X_0} + 2k)r \right] d\gamma \right\}. \quad (14)$$

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A better approximation may be obtained by introducing the value of  $r$  from Eq. (4) and neglecting  $\sin \gamma$ . In this case, the velocity deduced from (12) is expressed by:

$$\begin{aligned}
 V^2 = & C_0 e^{-\frac{c}{a_0} r} + 2 g r_0 \left( \left[ \left( 1 - \frac{c}{2} \right) \frac{J_0}{G} - \frac{c}{4} \frac{C_x}{C_r} \right] \frac{1}{a_0} + \right. \\
 & + \frac{1}{1+a_0^2} \left[ \left[ \frac{c}{2} \frac{J_0}{G} - \left( 1 - \frac{c}{2} \right) \left( \frac{C_x}{C_r} + a_0 \right) \right] \sin \gamma + \left[ \frac{c}{2} \frac{J_0}{G} - \right. \right. \\
 & - \left. \left( 1 - \frac{c}{2} \right) \left( \frac{C_x}{C_r} a_0 - 1 \right) \right] \cos \gamma \left. \right] - \frac{c}{4(4+a_0^2)} \left[ \left( a_0 + 2 \frac{C_x}{C_r} \right) \sin 2\gamma + \right. \\
 & \left. \left. + \left( a_0 \frac{C_x}{C_r} - 2 \right) \cos 2\gamma \right] \right). \quad (16)
 \end{aligned}$$

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and the velocity deduced from (14) by:

$$V^2 = C e^{-\lambda \gamma} + \frac{g r_0 \mathcal{F}_0}{b_0 G} (2 - \epsilon) + \frac{1}{1 + b_0^2} \left\{ g r_0 \left[ \frac{\mathcal{F}_0}{G} \epsilon - (2 - \epsilon) b_0 \right] - \frac{8G(1+\delta)}{\rho S \pi \lambda} \right\} \sin \gamma + \quad (19)$$

$$+ \left\{ g r_0 \left[ \left( \frac{\mathcal{F}_0}{G} b_0 - 1 \right) \epsilon + 2 \right] - \frac{8G(1+\delta)b_0}{\rho S \pi \lambda} \right\} \cos \gamma - g r_0 \frac{\epsilon}{4} \frac{b_0 \sin 2\gamma - 2 \cos 2\gamma}{4 + b_0^2}$$

After having established the velocity, formula (8) supplies the angle of attack, and the total lift or total drag, necessary for determining the wing stress. Denoting with  $G_a$  the weight of the wing and with  $C_x$  its drag coefficient, the total wing stress may be determined by (21). The wing stress thus depends on the corresponding  $\gamma$  angle. Expressing  $F_a$  by (22) it can be observed that the first square of this equation is almost constant.

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$$F_a = G \sqrt{\left[ \left( \frac{V^2}{gr} + \cos \gamma \right) \frac{C_z}{C_x} + \frac{G_a}{G} \left( \frac{1}{2gr} \frac{dV^2}{d\gamma} + \sin \gamma \right) \right]^2 + \left[ \frac{V^2}{gr} + \left( 1 - \frac{G_a}{G} \right) \cos \gamma \right]^2} \quad (21)$$

$$F_a = G \sqrt{\frac{\rho}{2G} S V^2 \left( C_x - C_x \frac{G_a}{G} \right) + \sigma \frac{G_a}{G^2} \left[ \frac{V^2}{gr} + \left( 1 - \frac{G_a}{G} \right) \cos \gamma \right]^2} \quad (22) \quad 4$$

Thus, the maximum of  $F_a$  will approximately coincide with the maximum of the second square. The use of formulae (12) or (14), and (16) or (19), respectively, depends on the value of the angle of attack. The curve can be divided into 2 - 3 sections, onto which one may apply the polar equation or an average con-

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stant value of the  $\frac{C_x}{C_z}$  ratio, connecting the solution and de-

termining at the corresponding points the value of the constant C from the velocity expression. According to the second equation of (8), the equilibrium on the path requires that the angle of attack should have at every point a value included between the maximum values,  $C_{zM}$ , and the minimum values  $C_{zM}$  of  $C_z$ . At every point of the path, the condition

$$\left. \begin{aligned} \frac{eS}{2G} C_{zH} &\geq \frac{1}{gT} + \frac{\cos \gamma}{V^2} \geq \frac{eS}{2g} C_{zm}, \\ V^2 &\geq 0, \end{aligned} \right\} \quad (24)$$

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should be satisfied. The solution of the problem depends on the parameters  $\gamma_0$  and  $k$  which depend on the engine intake. There exists thus an infinity of possible solutions, corresponding to different conditions of the engine, within the limits determined by (24). The authors finally present a calculation example showing that for the considered case, the variation of the lift coefficient  $C_z$  is small, the velocities decrease appreciably within the first part of the path and the ratio  $C_x/C_z$  may be assumed as constant. There are 4 figures and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The 2 references to the English-language publications read as follows: N. Tipei, C. Guta, "On the Motion of an Airplane on a Given Trajectory", *Revue de mécanique Appliquée*, III, 4, 393 - 403, 1958; and R. von Mises, "Theory of Flight", Mc. Graw-Hill, New York, 1945, 547 - 550.

SUBMITTED: April 21, 1961

Card 9/ 10



IONESCU, V.

"Protection against oscillation", p. 546; "issued by the Rumanian Society of Mathematics and Physics, Monthly". (GAZETA MATEMATICA SI FIZICA, SERIA A., Vol. 12, Dec. 1954, Bucuresti, Rumania).

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 5, May, 1955.

IONESCU, V.

TECHNOLOGY

Periodicals: ELECTROTEHNICA. Vol. 6, no. 8, Aug. 1958

IONESCU, V. Hilbert spaces applied to the study of deforming phenomena. p. 280

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,  
February 1959, Unclass.

IONESCU, V., ing.; BLEGU, N., ing.

Content of projects for internal organization and improvement  
of eroded soils. Rev geodezie 6 no.4:42-54 '62.

1. Consiliul Superior al Agriculturii (for Ionescu, Blegu).

MURAI, Ch., ing.; IONESCU, V., ing.

Results obtained in solving the problems of fighting soil erosion.  
Rev geodezie 8 no. 3:44-49 '64.

1. Higher Council of Agriculture.

S/194/62/000/002/026/096  
D230/D301

16.8000  
AUTHORS: Penescu, C.; Ionescu, V. and Cserveny, I.

TITLE: Design and realization of a sensitive element for automatic frequency control

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 2, 1962, abstract 2-2-100ch (Automat. și electron., 1961, 5, no. 1, 13-21)

TEXT: A circuit diagram is presented, with an analysis and design method for a frequency changer in power networks. The changer is designed as a differential unit comprising a passive quadripole, at whose output the voltage phase varies with change of frequency, the amplitude remaining constant. It is confirmed that such circuits can be used for v.h.f. stabilization. [Abstracter's note: Complete translation.] ✓B

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MIHAILEANU, C., conf. ing.; IONESCU, V., ing.

Equations and schemes of the dynamic condition in electric power  
systems designed with automatic regulating of speed and frequency.  
Energetica Rum 9 no.8:322-332 Ag '61.

LEONIDA, Dan, ing. (Bucuresti); IONESCU, Vlad, ing. (Bucuresti)

Considerations concerning the optimum repartition of load  
in power systems. Energetica Rum 10 no.4:148-159 Ap '62.

1. Intreprinderea pentru rationalizari si modernizari energetice.

IONESCU, Vlad, ing. (Bucuresti); LEONIDA, Dan, ing. (Bucuresti)

Considerations on the problems connected with the optimum distribution of load in power systems. II. Energetica  
Rev 10 no.6:243-257 Jo '62.

1. Intreprinderea pentru rationalizarea si modernizarea instalatiilor energetice, Bucuresti.



PENESCU, C.; IONESCU, V.

Dynamic working conditions of automatic systems running in parallel  
at the exit. Probleme automatiz 4:181-191 '63.

*Ionescu, V.*

ROMANIA

IONESCU, V.

Pharmacist

Director General of the General Directorate of Pharmacy of the  
Ministry of Health and Social Welfare (Directia Generala  
Farmaceutica din Ministerul Sanatatii si Provederilor Sociale).

Bucharest, Farmacia, No 1, Jan 63, pp 1-2.

"The Pharmaceutical Department at the Beginning of the Year."

IONESCU, Vasile

Contribution to the study of the suborder Symphyta (Hymenoptera)  
in Romania. Studii cerc biol anim 13 no.1:57-82 '61.

(KEAI 10:7)

(ROMANIA--SYMPHYTA)

RUMANIA

Dr S. HAROVIUC, Regional Veterinary Laboratory (Laboratorul veterinar regional) Focsani, and Dr V. IONESCU, Veterinary Sector Ciorasti (Circumspectia veterinara) District (raionul) R. Sarat.

"Epizootiology of Spirochetosis in Hens."

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 13, No 4, Apr 63; pp 79-81.

Abstract: Outbreak in summer of 1962 in 3850-bird poultry farm, 15% perished and an additional 13% had to be slaughtered. Spirochetes were found in the peripheral blood; fecal transmission is postulated. "Spirocid", "Spirilizin" (sulfonamides or organic arsenicals?) were both effective. Graph, 5 Rumanian, 1 Soviet and 1 German reference.

1/1

The pH and the finishing of wool fibers. Ind text Rum 12  
no.7:289-291 J1'61.

1. Intreprinderea Industriala de Stat "Libertatea", Sibiu.

ROMANIA/Chemical Technology - Chemical Products and Their  
Applications -- Pesticides.

I-7

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 8828

Author : Ionoscu, V.

Inst :

Title : Advances in the Technology of the Production of BHC

Orig Pub : Rev. chim., 1956, 7, No 4, 229-232

Abstract : The more important methods for the production of BHC, described in the literature, are discussed together with research on the production of BHC carried out in the Romanian Peoples Republic.

Card 1/1

ROMANIA/Chemical Technology - Chemical Products and Their  
Applications, Part 4. - Synthetic Polymers,  
Plastics.

CIA-RDP86-00513R00051 710

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 48729

Author : I. Ionescu, V. Calcan, N. Goldenberg

Inst :

Title : Plastics Based on Furfural and Its Derivatives. IV.  
Effect of Thermal Treatment on Mechanical Strength of  
Textolite Based on Furfural Resin.

Orig Pub : Studii si cercetari mec. apl., 1957, 8, No 1, 171-187

Abstract : The thermal treatment of textolite (produced by impregnating cotton cloth with a resin solution of a temperature of dropping according to Ubbelode of 108 to 110° and by pressing at 160° and keeping it 4 min. per mm under the pressure of 100 kg per sq.cm) in a certain temperature range and duration increases the limits of compression strength (CS), of static bending strength

Card 1/2

IONESCU, V; BUDICI, G.; SERBAN, E.

Obtainment of sodium sulfate and magnesium salts by a complex utilization of gypsum, dolomite, and rock salt. Report I. p. 559.

REVISTA DE CHIMIE. (Ministerul Industrii Petrolului si Chimiei si Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania) Bucuresti, Romania, Vol. 10, no. 10, Oct. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 2, August 1959.

Uncl.

IONESCU, V.

The herbicide 2,4-D (dichlorophenoxyacetic acid). Rev chimie  
Min petr 14 no.9:499-505 S '63.

CALIN, S., conf. ing.; IONESCU, V., ing.

Using the method of second order equivalent system for the  
optimum tuning of PI controllers. Automatica electronica 7  
no.6:261-269 N-D'63.



IONESCU, V., ing.; ROISINGER, E.

Synthesis of optimal automatic systems. Automatica electronica 8  
no.6:241-250 N-D '64.

L 62715-65 EPF(n)-2/EMP(h)/EMP(h)/EMP(l)/EMP(v) IJP(c) WJ/EC  
 ACCESSION NR: AP5021315 RU/0011/64/008/006/0241/0250

AUTHOR: Ionescu, V. (Engineer); Rouinger, E.

44  
 TITLE: Concerning the synthesis of optimal automatic systems

SOURCE: Automatica et electronica, v. 8, no. 6, 1964, 241-250

TOPIC TAGS: optimal control, automatic control system, mathematic model

ABSTRACT: The authors describe a method for the optimization of automatic systems in phase space. The method determines the optimum switching times by conditional development of the optimal control on the time axis. The optimizing scheme differs somewhat from that given by the determination control by means of phase space. Index. 44. has 1 figures and 30

ABSTRACT: none

ENCL: 00

SUB CODE: IE, MA

NO REF SOV: 003

OTHER: 004

JPRS

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the compound of the formula  $\text{C}_{10}\text{H}_{16}\text{O}_2$  is  
a solid, mp. 100-101°C, b.p. 140-141°C, n<sub>D</sub><sup>20</sup> 1.4600, d<sub>4</sub><sup>20</sup> 0.8600,  $\eta_{\text{sp}}/\text{c}$  0.45 (c 1.0% in acetone).

some polymerized, which is much more solid than  
it demethylated with solid KOH and ethylene glycol for 18  
hrs. at 200-210° yields crude hexestrol (III) which is acet-

ner:  $(\text{p-C}_6\text{H}_4\text{O}_2\text{C}_2\text{H}_5)_2$  is saponified with aq. KOH, and  
the crude  $\text{H}_2\text{HOOC-C}_2\text{H}_4\text{COOH}$  (VIII) obtained by acidification

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RUMANIA / Human and Animal Morphology (Normal and Pathological). Skeleton. 8

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 12342

Author : Parhon, C.I.; Ionescu, V.

Inst : -

Title : The Influence of Progesterone on Growing Cartilage in Sexually-Immature Rats.

Orig Pub : Studii si cercetari endocrinol., 1955, 6, No. 1-2, 261-264

Abstract : In white rats, over a course of 50 days, 1 ml each of small (0.02 mg/kg) and large (1 mg/kg) doses of progesterone (1st and 2nd groups) were introduced. The weight of the animals of the 1st group (I) increased on the average by 30.1 g, 2nd group (II) by 31.8 g, control by 40-5 g. In I there was a considerable delay in the development

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RUMANIA / Human and Animal Morphology (Normal and Pathological). Skeleton. 8

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 12342

of cartilagenous tissue: an epiphyseal plate with a thickness of 240 $\mu$  (control 280 $\mu$ ), a small amount of little chondrocytes, between them a large amount of amorphous substance. In the formed bone, the bone trabeculas were shorter than in control animals. In II, a moderate delay in the development of cartilagenous tissue: an epiphyseal plate with a thickness of 250 $\mu$ , comparatively more little chondrocytes than in I but less than in the control. Bone trabeculas were as short as in I. Thus, progesterone disrupts the normal development of bones through delaying cartilagenous tissue development (decrease of the number of chondrocytes and increase of the amount of amorphous substance) and slowing

Card 2/3

IONESCU, V.; DUMITRESCU, D.; TOTH, R.

Application of the network method to study the motion of heavy fluids  
with open surfaces. p. 339. Academia Republicii Populare Romine. Institutul  
de Mecanica Aplicata. STUDII SI CERCETARI DE MECANICA APLICATA. Bucuresti.  
Vol. 6, no. 3/4, July/Dec. 1955

So. East European Accessions List Vol. 5, No. 9 September, 1956

IONESCU, V.

VICIU, E.; VOICULESCU, A.; IONESCU, V.

Behavior of hemodynamic factors in hypertensive disease during the cold test. Probl. card., Bucur. 2:198-223 1956.

(HYPERTENSION, diagnosis  
cold pressor test, behavior of hemodynamics)

(BLOOD PRESSURE,  
eff. of cold pressor test in hypertension,  
hemodynamic factors)

RUMANIA/General Problems of Pathology - Tumors. Tumor of Man. U.

Abs Jour : Ref Zhur - Biol., No 21, 1958, 98305

Author : Ionescu, V. Stanicioiu, Gh.; Strinbeanu, I; Hertner, Alex

Inst : "

Title : Adenanthinoma and Follicular Cyst of Lower Jaw.

Orig Pub : Stomatologiya, 1956, 3, No 4, 359-361

Abstract : No abstract.

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*IONESCU, V.*

ARSENESCU, Gh.; CONSTANTINIU, I.; CORNEANU, M.; BITTMAN, E.; IONESCU, V.

Studies of the effect of atropine on the nervous system. I. Effect of atropine on the excitability of the higher nervous centers and on neuromuscular excitability in humans. Bul. stiint., sect. med. 8 no.4:919-936 Oct-Dec 56.

(ATROPINE, effects

on neuromusc. & higher nerv. center excitability, in humans)

(NERVE ENDINGS, eff. of drugs on

atropine, on neuromusc. excitability)

(CEREBRAL CORTEX, eff. of drugs on

atropine, on excitability of higher nerv. centers)

IONESCU, V., Dr.; THEODORINI, Sanda, dr.; GHITA, M., dr.

Various anomalies of ventricular excitation with normal  
conduction time. Med.int.,Bucur. 8 no.5:763-769 Sept 56.

1. Institutul de fiziologie normala si patologica al Academiei  
R.P.R.

(ELECTROCARDIOGRAPHY  
anomalies of ventric. excitation with normal  
conduction time)

(VECTORCARDIOGRAPHY  
(SAME)

*Ionescu V.*  
PARRON, C.I.; PITIS, Marcella; STANESCU, V.; SEGAL, Leiba; IONESCU, V.

Considerations on 12 cases of Cushing's syndrome occurring in  
childhood or adolescence. Rumanian M. Rev. 1 no.3:60-69 July-Sept 57.  
(CUSHING SYNDROME, in inf. & child  
in child. & adolescents)

*Ionescu, V.*

RUMANIA / Human and Animal Physiology (Normal and Pathological). Blood Circulation. Heart.

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 97489

Author : Arsenescu, Gh.; Voiculescu, A. ; Constantiniu, I.;  
Ionescu, V.; Teodorini, S.; Mustata, N.

Inst : Not given

Title : Investigation of Effect of Certain Substances on Heart Muscle Through Study of Normal Electrocardiogram Changes of Frogs Heart in Situ Induced by Application of Substances on the Heart Apex

Orig Pub: Studii si cercetari fiziol. Acad. RPR, 1957, 2,  
No. 3-4, 373-405

Abstract: Changes of electrogram and monophasic current of action of frogs heart in anode and cathode polarization

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RUMANIA / Human and Animal Physiology (Normal and Pathological). Blood Circulation. Heart.

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 97489

zation, as well as in local application or intravenous introduction of a number of substances in various doses are described. According to the changes, in the monophasic current of action, induced by them, acetylcholine, veratrine, K, monidoacetic acid and preparation 883 F may be regarded in usual doses as substances with catelectrotonic action, and adrenaline, O<sub>2</sub>, novocaine, strychnine, strophanthin, and Ca may be regarded as substances with anelectrotonic type of action. The authors point out that catelectrotonic and anelectrotonic substances induce changes of electrogram which bring it, according to pattern, near to monophasic current of action. Transition phases from the normal electrogram to the monophasic are specific for catelectrotonic or

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IONESCU, V.

COUNTRY : ROMANIA  
 CATEGORY : Pharmacology and Toxicology. Cardiovascular Agents  
 RES. JOUR. : Rev. Roum. Med., No. 5, 1957, No. 23168  
 AUTHOR : Arsenescu, G.; Zafirescu, N.; Constantiniu, V.  
 TITLE : Study of the Action of Strophanthin upon the Phenomenon of Muscular Fatigue  
 OPID. PUB. : Fiziol. norm. si patol., 1957, 4, No 4, 356-365  
 ABSTRACT : The action of the intravenous introduction of 0.25 mg of strophanthin (S) upon the electro-myogram and mechanogram of the flexor muscles of the distal in voluntary rhythmic lifting of a load (2 kg) one hour prior to, and 4 hour after administration of S, was studied. S increased the mechanical work by approximately two times. In experiments on a frog, it was found that S removes  
 \*I.; Teoderini, S.; Ionescu, V.; Palberg, B.

Cord: 1/2

ABSTRACT cont'd : or decreases the phenomenon of muscular fatigue, both as a local stimulation, as well as through higher nervous centers. The changes of the aural electro-myogram produced by the application of S upon the distal end of the muscle showed that S exerts anelectronic and anabolic action upon striated musculature.-- E. N. Sheynbaum

Cord: 2/2

RUMANIA/Human and Animal Physiology. Neuromuscular Physiology

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Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65598

Author : Teodorini Sanda, Ionescu V.

Inst : -

Title : The Normal Biphasic Electromyogram of Frog Skeletal Muscle.

Orig Pub : Fiziol. norm. si patol., 1957, 4, No 5, 447-457

Abstract : Both the diphasic and the monophasic electromyograms of striated muscle are the result of fluctuations in the resultant integral electric fields of muscle dipoles. Evidence of this is seen in the unipolar recording of a biphasic electromyogram at any point on an intact muscle and the recording of electromyograms of the same form with both direct and indirect leads, demonstrating the existence of fields of the integral resultant dipoles during the activity of the intact or damaged muscle. An investigation was made of the conditions for the appearance of a monophasic current in the gastrocnemius and sartorius muscles, of the phasic fluctuations in the electromyogram depending upon stimula-

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RUMANIA/Human and Animal Physiology. Neuromuscular Physiology

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Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65598

tion frequency and certain of the causes which could produce changes in the biphasic electromyogram.

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TANASESCU, Gh., Dr.; RADULESCU, P., dr.; IONESCU, V., dr.

Paper electrophoresis of proteins and lipo-glyco-protein conjugations. Med. int., Bucur. 9 no.1:3-12 Jan 57.

1. Lucrare efectuata in Laboratorul de biochimie si in Sectia medicala a Spitalului nr. 1 C.F.R. Witing, de sub conducerea prof. Gh. Niculescu.

(PROTEINS, determination  
electrophoresis of proteins & conjugated proteins)

~~IANESCU, V.~~  
NICULESCU, Gh.; RADULESCU, P.; TANASESCU, Gh.; IONESCU, V.; BOBIC, D.

New investigations in therapy of diabetes mellitus (D-860 therapy).  
Med. int., Bucur. 9 no.7:1002-1009 July 57.

1. Spitalul Unificat nr. 1 C.F.R. Witting.  
(ANTIDIABETICS, ther. use  
tolbutamide, results)



IONESCU, V.; LAZARESCU, R.

An unusual case of pararrhythmia. Med. int., Bucur. 9 no.7:1110-1113  
July 57.

1. Institutul de fiziologie normala si patologica al Academiei R.P.R.  
Prof. D. Danielopolu.

(ARRHYTHMIA, case reports  
pararrhythmia, unusual case)

ARSENESCU, Gh.; IONESCU, V.; TEODORINI, Sanda; FELBERG, B.

Studies related to the interpretation of unipolar thoracic leads of  
the CR, CI and CF types. Med. int., Bucur. 9 no.9:1382-1390 Sept 57.

(ELECTROCARDIOGRAPHY,

CF, CI & CR leads, interpretation)

EXCERPTA MEDICA Sec 18 Vol 3/8 Cardio. Dis. Aug 59

2239. ECG changes in experimental hypothermia Modificările electrocardiogramelor în hipotermia experimentală. IONESCU V., SUCIU T. and DEMETRIU F. Lab. de Hipotermie, Inst. Oncol., București *Stud. cercet. Fiziol.* 1958, 3/3 (377—385) Graphs 7

Standard leads were recorded in 87 dogs in profound hypothermia (down to 20° C.). In general, a polymorph picture and a marked sensitivity to various agents affecting the heart (anoxia, CO<sub>2</sub>, oxygen, adrenaline) were noted. The changes were reversible. They indicated a slowing of the process of myocardial repolarization, especially in the apical region, showing that a disturbance of lesional type was present, but not an organic one, as it was reversible. The records indicate that ventricular fibrillation cannot be predicted and that in hypothermia the heart is less sensitive to hypercapnia.

(II, 18)

IONESCU, V.: TEODORINI, Sanda

Notes on the Wolff-Parkinson-White syndrome (W.P.W.) Med. int., Bucur.  
10 no.4:629-635 Apr 58.

1. Institut de fiziologie normala si patologica, Bucuresti.

(HEART BLOCK

Wolff-Parkinson-White synd., pathogen. & ECG aspects)

(ELECTROCARDIOGRAPHY, in various dis.

Wolff-Parkinson-White synd.)

IONESCU, Val., Dr.

Vectorial representation, the current stage in interpretation of electrocardiograms. Med. int., Bucur. 10 no.5:657-672 May 58.

1. Lucrare efectuata in Institutul de fiziologie normala si patologica (Prof. dr D. Danielopolu" al Academiei R. P. R., director, prof. I. I. Niteacu.

(VECTOCARDIOGRAPHY

principles, vectorial theory & interpretation of electrocardiograms)

ARSENESCU, Gh.; IONESCU, Val; TEODORINI, Sanda; CANTACUZINO, D.; VRINCEANU, R.;  
ZLOTESCU, A.; VALEANU, Georgeta; AZIMIOARA, Yolanda.

Relations between the electric and mechnic systoles, as studied in  
normal individuals during physical effort; comparative statistical  
data on the Hegglin physiological and clinical syndromes. Studii cerc  
fiziol 5 no.1:135-145 '60. (EEAI 9:12)

1. Institutul de fiziologie normala si patologica "Prof. Dr  
D.Danielopolu" al Academiei R.P.R.

(EYE) (SHOCK THERAPY) (ACETYLCHOLINE)  
(ATROPINE) (MILK)

CAJAL, N.; HUNG, T.; IONESCU, Val.; MARINESCU, G.; MATEESCU, S.

Electrocardiographic changes in rabbits in experimental herpes.  
Stud. cercet. inframicrobiol., Bucur. 11 no.2:219-227 '60.

(HERPES exper.)

(ELECTROCARDIOGRAPHY)

IONESHESKU, V. [Ionescu, V.]

Temporal epilepsy. Zhur. nevr. i psikh. 60 no.11:1474-1481 '60.  
(MIRA 14:5)

1. Institut nevropatologii imeni I.P.Pavlova (dir. - akademik  
A.Kreyndler) Akademii Rumynskoy Narodnoy Respubliki.  
(EPILEPSY) (ELECTROENCEPHALOGRAPHY)



IONESHESKU, V. [Ionesescu, V.]; SHOYMU, I. [Soimu, I.]; MAGDA, S.;  
FLORU, S.

Changes in the transaminase in the blood serum and cerebrospinal  
fluid in acute disorders of cerebral blood circulation. Nauch.  
trudy Inst. nevr. AMN SSSR no.1:307-313 '60.

(MIRA 15:7)

1. Institut nevrologii imeni Pavlova Akademii Rumynskoy Narodnoy  
Respubliki, Bukharest i Kafedra biokhimii Mediko-farmatsevti-  
cheskogo instituta.

(TRANSAMINASES) (CEREBROSPINAL FLUID)  
(CEREBROVASCULAR DISEASE)

IONESHESKU, V.[Ionesescu, V.]; SHOYMU, I.[Soimu, I.]; MAGDA, S.;  
FLORU, S.

Electrophoretic study of the changes in the blood serum in acute disorders of cerebral blood circulation. Nauch. trudy Inst. nevr. AMN SSSR no.1:322-328 '60. (MIRA 15:7)

1. Institut nevrologii imeni Pavlova Akademii Rumynskoy Narodnoy Respubliki, Bukharest i kafedra biokhimii Mediko-farmatsevticheskogo instituta.

(ELECTROPHORESIS) (CEREBROVASCULAR DISEASE)  
(BLOOD--EXAMINATION)

ARSENESECU, Gh.; IONESCU, V.; TEODORINI, Sănda; VRINCEANU, R.; CANTACUZINO, D.;  
REPTA, V.; BOBIC, D.; VALEANU, Georgeta; AZIMIOARA, Yolanda

Studies of the adaptation of the cardiovascular system in engine drivers  
during summer months. Rumanian M Rev. no.1:65-73 Ja-Mr '61.

(CARDIOVASCULAR SYSTEM physiology) (EXERTION physiology)  
(INDUSTRIAL MEDICINE) (HEAT)

GABRIELESCU, Elena; TEODORINI, Sanda; IONESCU, V.; BORDEIANU, Aurelia

Histochemical changes of the carbohydrates in the superior cervical ganglion during the phases of functional stimulation. Rev. sci. med. 5 no.3/4:153-156 '60.

(GANGLIA AUTONOMIC chem.) (CARBOHYDRATES chem.)  
(ELECTROPHYSIOLOGY exper.)

IONESCU, V., dr.

Fibrinolysis in the treatment of thrombosis. Med. intern. 13 no.10:  
1365-1369 0 '61.

(THROMBOSIS therapy)  
(FIBRINOLYSIN therapy)  
(ANTICOAGULANTS therapy)

PAPPO, A.; MIRON, C.; IONESCU, Victoria

Current clinical problems in cholangio-cholecystopathy. Stud.  
cercet. med. intern. 3 no.1:9-19 '62.  
(BILARY TRACT diseases)

IONESIESCU, V.; CHELCHIANU, G.; VOICU, A.

Dyssynergia cerebellaris myoclonica (Ramsay-Hunt syndrome). Rev.  
sci. med. 7 no.3/4:153-155 '62.

(CEREBELLAR DISEASES) (MYOCLONUS) (EPILEPSY)  
(GENETICS, HUMAN)

MILCU, St. M., academician; STANESCU, V.; IOANITIU, D.; CIURDAREANU, I.;  
IONESCU, V.; POENARU, S.; MAXIMILIAN, C.

The Laurence-Moon-Biedl-Bardet syndrome: a familial case. Stud. cercet.  
endocr. 13 no.1:95-104 '62.

(LAURENCE-MOON-BIEDL SYNDROME genetics)



STANESCU, V.; IONESCU, V.; FLOREA, I.; POENARU, S.

The diagnosis of incipient hyperthyroidism in children and adolescents. Stud. cercet. endocr. 14 no. 3:341-354 '63.

(HYPERTHYROIDISM) (THYROID FUNCTION TESTS)  
(IODINE ISOTOPES, DIAGNOSTIC)

ARSENESCU, Gh.; IONESCU, Val.; TEODORINI, Sanda; VRINCEANU, R.;  
CANTACUZINO, D.; REPTA, V.; BOBIC, D.; VALEANU, Georgeta;  
AZIMOARA, Yolanda

Studies on the adaptation of the cardiovascular apparatus  
of locomotive engineers in summertime. Studii cerc fiziol  
5 no. 4: 703-715 '60.

(1. Locomotive engineers 2. Cardiovascular system)

1. Institutul de fiziologie normala si patologica "Prof.  
Dr. D. Danielopolu" al Academiei R.P.R. si Directia  
sanitara C.F.R.
2. Membru al Comitetului de redactie "Studii si cercetari  
de fiziologie" (for Arsenescu).

NICOLAU, C.T., prof.; IONESCU, V., dr. TEITEL, P., dr.; POPESCU, Doina T.,  
dr.; GHEORGHIU, Georgeta; ZAHARIA, Maria

Cytochemical determination of hemoglobin F as a diagnostic method  
in thalassemia. (Considerations on several clinical cases). Med.  
intern. (Bucur.) 16 no.10:1181-1186 O '64

1. Lucrare efectuata in Centrul de hematologie (director: prof.  
C.T. Nicolau, membru corespondent al Academiei Republicii  
Populare Romine.

MILCU, Ioana; NANU, Lydia; MARCEAN, Rodica; IONESCU, Violeta

The effect of epiphysectomy on the metabolism of carbohydrates.  
Studies with rats. Stud. cercet. endocr. 16 no.1:17-23 '65.

IONESCU, V.

Determination of blood volume with the aid of radioisotopes.  
Fiziol. norm. pat. 10 no.5:385-393 S-O '64.

1. Institutul de fiziologie normala si patologica "Dr. Danielopolu"  
al Academiei Republicii Populare Romine.

L 29660-66 EWP(k)/EWP(h)/EWP(l)/EWP(v) EC

ACC NR: AP6020134

SOURCE CODE: RU/0011/65/009/005/0234/0238

AUTHOR: Ionescu, VL. (Engineer)

ORG: none

TITLE: Some considerations concerning optimization as a function of speed for automatic direction

SOURCE: Automatica si electronica, v. 9, no. 5, 1965, 234-238

TOPIC TAGS: data sampling, automatic control system

ABSTRACT: A discussion of control systems with constant sampling periods. The author concludes that the use of sampling systems allows the obtaining of optimal conditions with regard to the duration of the transitory processes, and that proper selection of the sampling period results in conditions leading to optimal application of the maximisation principle. Orig. art. has: 4 figures and 39 formulas. [JPRS]

SUB CODE: 13 / SUM DATE: none / ORIG REF: 001 / OTH REF: 001

SOV REF: 004

Card 1/1 CC

UDC: 621-503.5.003

IONESCU, V.T., dr.; KONDI, V. dr.

Immunoelectrophoresis in Rustitki-Kahler disease. Med. intern.  
(Bucur.) 16 no.7:827-832 J1'64

1. Lucrare efectuata la Centrul de Hematologie al Ministerului  
Sanatatii si Prevederilor Sociale (director: prof. C.T.Nicolau).

IONESCU, V.Th.; IANOVICI, M.

Modeling the Laplace fields through the rheoelectric analogy and  
with ordinary paper. Studii cerc fiz 11 no.3:805-809 '60.

(EEAI 10:2)

(Electric conductivity) (Harmonic functions)  
(Potential, Theory of)



ILIESCU, Florica L.; FADEI, Lidia; IONESCU, N.; IONESCU, V.T.

Culturing of malignant cells from human neoplastic ascites fluid.

Rumanian M Rev. No.3:13-16 '61.

(NEOPLASMS)

(ASCITES)

(TISSUE CULTURE)

IANOVICI, M.; IONESCU, V.Th.

Experimental installation for studying and testing ion sources  
and electron injectors. Studii cerc fiz 15 no. 3:355-358 '64.

1. Institute of Atomic Physics, Bucharest.

ILIESCU, C.C.; IANOVICI, M.; DUTESCU, N.; IONESCU, V. Th.

Laboratory electromagnet for intense fields. Studii cerc fiz 14  
no.1:57-72 '63.

1. Institutul de fizica atomica Bucuresti.

IONESCU Vlasceanu, Victor

Application of the Laplace method in the determination  
of comet orbits. Studii astron 9 no. 1:47-76 '64.

CRISTESCU, Cornelia; IONESCU Vlasceanu, Victor; VLAICU, Stefania

Precise positions of comets observed in 1962 and 1963.

Studii astron 9 no. 1:93-95 '64.

IONESCU Vlasceanu, Victor

Precise positions of small planets (1961). Studii astron 9  
no. 1:147-158 '64.

Precise positions of small planets (1959). Ibid.:159-160

BUSTEA, Maria, dr.; DABIJA, Viorica, dr.; GHEORGHE, Ileana, dr.;  
IONESCU, E., dr.; IONESCU, Zenobia, dr.; LUNGU, Felicia, dr.;  
SALOMIN, Nadia, dr.; SAVIN, Valentina, dr.; STANESCU, I., dr.;  
STOICA, V., dr.; SERBAN, N., dr.; VISAN, Valeria, dr.

Our results in the treatment of complications of dental caries.  
Stomatologia (Bucur) 12 no.1:9-16 Ja-F'65.

1. Colectivul Serviciului de stomatologie al Spitalului uni-  
ficat de adulti, Constanta.

RUMANIA/Optics - Optical Technology.

K-

Abs Jour : Ref Zhur Fizika, No 3, 1960, 6989

Author : Ionescu Zane N.

Inst : -

Title : Production Control of Parts of Complicated Form with the Aid of Ultrasound

Orig Pub : Rev. cailor ferate. 1959, 7, No 4, 290-203

Abstract : No abstract.

Card 1/1

- 125 -

RUMANIA

IONESCU-AMZA, G., MD.

Bucharest, Sanatatea, No 12, Dec 63, p 18

"Stenosis of the Mitral Valve."



IONESCU-ANDREI, Pana

SURNAME (in caps); Given Names

Country: Rumania

Academic Degrees: --

Affiliation: --

Source: Bucharest, Comunicarile Academiei Republicii Populare Romine,  
No 5, 1961, pp 503-511.

Data: "Deep Seismic Focus~~y~~ in the Area of Tara Birsei."

IONESCU-Andrei, Pana

On the seismic centers of the Carpathian curve. Studii astron seis-  
mol 6 no.1:97-111 '61.

(Carpathian Mountains) (Seismometry)

IONESCU-ANDREI, Pana

On the intermediate impulses between the waves P and S recorded during the deep earthquakes of the Carpathian elbow. Studii astron. seismol 6 no.1:137-145 '61.

(Carpathian Mountains) (Seismic waves)

IONESCU-ANDREI, Pana

Theoretical variation of the relations  $R_p$  and  $R'_p$  in the nearby deep earthquakes. Studii astron seismol 6 no.1:147-150 '61.

(Earthquakes)

S/169/62/000/009/003/120  
D228/D307

AUTHORS: Petrescu, G., Radu, C. and Ionescu-Andrei, P.  
TITLE: Seismic activity on the territory of the RPR in 1959.  
Comments concerning the atmosphere and the crustal  
structure near Vrancea  
PERIODICAL: Referativnyy zhurnal, Geofizika, no. 9, 1962, 7, ab-  
stract 9A25 (Studii si cercetari astron. si seismol.,  
6, no. 2, 1961, 247-258 (Rum.; summaries in Russ.  
and Fr.))

TEXT: The results of studying the earthquakes that occurred on the  
territory of the RPR are presented in the first part. The stronger  
earthquakes are examined. The crustal structure in Europe is de-  
fined. Certain judgments concerning the asthenosphere and the crus-  
tal structure in the vicinity of Focșan are expressed in the second  
part of the work. A value of 90 km was obtained for the astheno-  
sphere's upper limit; this agrees with N. V. Shebalin's data (RZh-  
Geofiz, 1962, 6A106). The granite layer's depth is defined as 13 km.

Card 1/2

Seismic activity on ...

S/169/62/000/009/003/120  
D228/D307

This value coincides well with the data of geologic investigations.  
21 references. [Abstracter's note: Complete translation.] ✓

*Membru al Comitetului de redactie si  
redactor responsabil adjuncat pentru  
sectia de sismologie, "Studii si  
ceretari de astronomie si sismologie"*

Card 2/2

S/169/62/000/010/030/071  
D228/D307

AUTHORS: Petrescu, G. and Ionescu-Andrei, P..

TITLE: Suggested alterations to Standard STAS 2923-52 entitled "Construction standards. Macroseismicity zones"

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 10, 1962, 30-31, abstract 10A196 (Studii și certări astron. și seismol., 6, no. 2, 1961, 259-267 (Rum.; summaries in Rus. and Fr.))

TEXT: On the basis of macroseismic observational data for earthquakes that have occurred on the territory of the RPR, and also of microseismic investigations of these earthquakes, the authors propose the introduction of improvements into the standard STAS 2923-52 so that it will correspond to modern requirements and reflect the macroseismic effects actually observed.  
[Abstracter's note: Complete translation]

Card 1/1

S/169/62/000/002/015/072  
D228/D301

AUTHOR: Ionescu-Andrei, P.

TITLE: Deep seismic focus at Zara Birsei

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 2, 1962, 13, abstract 2A100 (Comun. Acad. RPR, 11, no. 5, 1961, 503-511)

TEXT: The processing of the data of the earthquake of July 22, 1959, gave the following results: Epicentral coordinates --  $\Phi$  45.96°N,  $\lambda$  25.92°E; focal depth 225 km; time at the focus 03<sup>h</sup> 01<sup>m</sup> 08<sup>s</sup>.6; magnitude: 4. The epicenter fell on the concavity of the bend of the Carpathians, near Zara Birsei; no deep foci were previously known here. P-waves were not recorded. [Abstracter's note: Complete translation.] ✓

Card 1/1



PETRESCU, G.; IONESCU-ANDREI, P.; RADU, C.

Problem of the State Standard STAS 2923-52. Studii astron seismol 7  
no.2:323-334 '62.

IONESCU-ANDREI, P.

Studies on the intermediate impulses. Studii astron seismol 7 no.2:  
351-360 '62.

IONESCU-ANDREI, P.; JIANU, D.

Theoretical variation of the relations  $R_p$  and  $R_p'$  in the deep and remote earthquakes. Studii astron seismol 7 no.2:361-370 '62.

ENESCU, D.; IONESCU-ANDREI, P.

Nature of faulting and stress pattern at the seismic focus in  
the vicinity of the Black Sea western coast. Probleme geofis  
2:87-102 '63.

IONESCU-BERECHET, A.

Ionescu-Berechet, A. - Organizational problems connected with agriculture construction.  
p.92

SO: Monthly List of East European Accessions List (EEAL) LC, Vol 4, No. 11  
November 1955, Uncl.

IONESCU-BUJOR, C., prof. univ.

At the great celebration of the <sup>1</sup>liberation of our country  
from the fascist yoke. Gaz mat B' 13 no.8:449-450 Ag '62.

LITARCZEK, Dacia.,; IONESCU-BUJOR, Carus.

Investigation of respiratory function in mitral stenosis patients;  
preliminary study. Bul stiint., sect. med. 7 no.4:1067-1085 Oct-Dec 55.

(MITRAL STENOSIS, physiology

resp., spirometry)

(RESPIRATION, in various dis.

mitral stenosis, spirometry)

MARINESCU, Voinea, Conf.; BUJOR-CARUS, Ionescu, dr.

Mechanism of production of acute pulmonary edema in patients  
of mitral stenosis. Med. int., Bucur. 8 no.2:231-234 Apr-May  
56.

(MITRAL STENOSIS, complications  
acute pulm. edema, mechanism of prod.)  
(PULMONARY EDEMA, etiol. & pathogen.  
mitral stenosis, mechanism of prod.)



MARINESCU, Voinya [Marinescu, V.] (Rumyniya, Bukharest); IONESCU-BUZHOR-  
KARUS [Ionescu-Busjor-Carus] (Rumyniya, Bukharest)

Mechanism of acute pulmonary edema in mitral stenosis [with summary  
in English, p.157] Vest.khir. 77 no.7:23-26 Jl '56. (MIRA 9:10)

(MITRAL STENOSIS, compl.

pulm. edema, physiol.)

(PULMONARY EDEMA, etiol. and pathogen.

mitral stenosis, physiol.)

IONESCU-BUJOR, CAROL

MARINESCU, VOINEA; IONESCU-BUJOR CAROL

Contributions to the study of the pathogenesis of acute pulmonary edema in patients with stenosis of the mitral valve. Rumanian M. Rev. 1 no.1:40-41 Jan-May 57.

(MITRAL STENOSIS, compl.

pulm. edema, pathogen.

(PULMONARY EDEMA, etiol. & pathogen.  
mitral stenosis)

IONESCU-BUJOR CARUS

MARINESCU, VOINEA; C. IONESCU-BUJOR CARUS; MARGEL SEIZANU

The ligation of the pulmonary artery; an effective means for the prevention of venous admixture in chronic pulmonary suppuration. Rumanian M. Rev. 1 no.2:78-83 Apr-June 57.

(LUNGS, abscess

prev. of venous admixture by ligation of pulm. artery)

~~SECRET - CONFIDENTIAL~~ IONESCULESCU  
MARINESCU, Voinea; BUJOR-CARUS, Ionescu

The role and the limits of compensating mechanisms in the postoperative period. Romanian M. Rev. 1 no.4:73-81 Oct-Dec 57.

(SURGERY, OPERATIVE  
postop. compensating mechanisms)

IONESCU-BUJOR, Claudiu

Intrinsic study of permanent and rotational flows of a perfect fluid. Bull math Rum 4 no.3/4:37-79'60.

IONESCU-BUJOR, Claudiu

Intrinsic study of the permanent and rotational flows of an ideal fluid. Rev math pures 7 no.3:493-541 '62.

IONESCU-BUJOR, Gaudiu

Intrinsic study of the rotational and permanent outflows of  
a perfect fluid. Pt. 3. Rev math pures 8 no.1:155-201 '63.

IONESCU-BUJOR, Claudiu

Introduction to the intrinsic study of the class of permanent motions of perfect plasma in a stationary magnetic field. Studii cerc meo apl 14 no.3:537-557 '63.



IONESCU-BUJOR, Claudiu

Introduction to the intrinsic study of the class of steady motions  
of perfect plasma in a stationary magnetic field. Rev mec appl 9  
no.4:797-817 '64.

IONESCU-BUJOR, C.

"Development of Instruction in Mathematics and Physics in Rumania", p. 360,  
Issued by the Rumanian Society of Mathematics and Physics. Monthly.  
(GAZETA MATEMATICA SI FIZICA. SERIA A., Vol. 6, No. 8/9, Aug./Sept. 1954.

SO: Monthly List of Eastern European Accessions, (EEAL), LC, Vol. 4, No. 5,  
May 1955, Uncl.

IONESCU-BUJOR, C.

"Relationship between Scientific Creation in our country and in Russia and the USSR", p. 369, Issued monthly by the Rumanian Society of Mathematics and Physics. Monthly. (GAZETA MATEMATICA SI FIZICA. SERIA A., Vol. 6, No. 8/9, Aug./Sept. 1954.

SO: Monthly List of Eastern European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

IONESCU-BUJOR, C.

60th anniversary of the founding of Gazeta Matematica. p. 485  
GAZETA MATEMATICA SI FIZICA. SERIA A. Bucuresti.  
Vol. 7, no. 9, Sept. 1955

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 2,  
February 1956